



CYCLO[®] INDUSTRIES, INC

MATERIAL SAFETY DATA SHEET

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Cyclo Industries, Inc. considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals.

SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Cyclo[®] Anti-Gel Diesel Fuel Treatment, Stock No. C-DFA & C-270

Product Use: Helps prevent the major problems and downtime caused by cold weather diesel fuel wax, ice crystals and poor stability. This unique formula attacks and overpowers paraffin wax, water and carbon.

Distributed by: Cyclo Industries, Inc., 401 Maplewood Drive, Suite 18, Jupiter, FL 33458
Telephone: (561) 775-9600

First Aid Emergency: (800) 752-7869 or (312) 906-6194

Shipping Emergency: (800) 424-9300 or (703) 527-3887 (CHEMTREC)

NFPA Code: Health = 2 Flammability = 2 Reactivity = 0

SECTION 2 – COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
64742-96-7	Mineral Spirits	60 – 80	100 ppm OSHA PEL & ACGIH TLV
64742-94-5	Heavy Aromatic Naptha	15 – 20	Not established

SECTION 3 – HAZARDS IDENTIFICATION

Effects of Overexposure:

- Inhalation:** Vapors may cause irritation to nose, throat and respiratory tract. High vapor concentrations may result in central nervous system (CNS) depression. Symptoms may include drowsiness, weakness, headache, dizziness and nausea.
- Skin Contact:** Expected to be a skin irritant. Prolonged or repeated liquid contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis.
- Eye Contact:** May cause temporary discomfort or moderate irritation.
- Ingestion:** Liquid can directly enter the lungs (aspiration) when swallowed or vomited. Serious lung damage and possibly fatal chemical pneumonia (chemical pneumonitis) can develop if this occurs.

SECTION 3 – HAZARDS IDENTIFICATION continued

Other Health Effects: This product contains naphthalene. Literature data indicated that repeated or prolonged exposure by inhalation can cause kidney, eye nerve damage, corneal ulceration, liver damage and cataracts of the eye.

Medical Conditions Generally Aggravated By Exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

Neurotoxicity: Repeated exposures that cause acute neurological effects may also cause long-term neurological deficits in humans.

Carcinogenicity: NTP = No; IARC Monographs = No; OSHA Regulated = No

SECTION 4 – FIRST AID MEASURES

First Aid Procedures:

- Ingestion:** DO NOT INDUCE VOMITING. Give two (2) glasses of water (16 oz.). If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention. Do not give anything by mouth to an unconscious person.
- Skin Contact:** Remove contaminated clothing/shoes. Wipe off excess material from exposed area. Flush with large amounts of water for at least 20 minutes and follow by washing with soap for 15 minutes. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.
- Inhalation:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
- Eye Contact:** Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: 145°F (63°C) **Method Used:** TCC

Flammable Limits in Air by Volume: Lower Explosion Limit (LEL) = Not established
Upper Explosion Limit (UEL) = Not established

Extinguishing Media: Use water fog, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Do not use a direct stream of water. Product will float and can be re-ignited on surface of water. Caution: Combustible. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NISH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion Hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Hazardous Combustion Products: Carbon monoxide and carbon dioxide are produced on combustion as well as nitrogen.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Caution: Combustible. Eliminate potential sources of ignition. Handling equipment must be grounded. Isolate hazard area and restrict access. Try to work upwind of spill. Avoid direct contact with material. Wear appropriate respirator and other protective clothing. Shut off source of lead only if safe to do so. Dike and contain land spills; contain water spills by booming. Use water fog to knock down vapors; contain runoff. For large spills, remove by mechanical means and place in containers for disposal. For small spills, soak up residue with an absorbent such as clay sand or other suitable material. Place in non-leaking containers and seal tightly for proper disposal. Flush area with water to remove trace residue. Dispose of flush solution.

SECTION 7 – HANDLING AND STORAGE

Handling & Storage Procedures: Combustible. Hot surfaces may be sufficient to ignite liquid even in the absence of sparks or flames. Vapors may accumulate and travel to distant ignition sources and flashback. Empty containers are hazardous, may contain flammable/explosive dusts, residues or vapors. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Do not pressurize drum containers to empty them. Air-dry contaminated clothing in a well-ventilated area before laundering. Avoid breathing vapors and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Use good personal hygiene. Store in a cool, dry, well-ventilated area away from heat and ignition sources. Use explosion-proof ventilation to prevent vapor accumulation. See product label for additional information. **KEEP OUT OF THE REACH OF CHILDREN.**

Other Precautions: Empty containers can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits (Section 2) use a NIOSH-approved respirator. Use a NIOSH-approved chemical cartridge respirator with organic vapor cartridges or use a NIOSH-approved supplied-air respirator. For high airborne concentrations, use a NIOSH-approved supplied-air respirator, either self-contained or airline breathing apparatus, operated in a positive pressure mode.

Ventilation: Use explosion-proof ventilation required to control vapor concentrations. Concentrations in air should be maintained below the recommended threshold limit value if unprotected personnel are involved. Local ventilation recommended where mechanical ventilation is ineffective in controlling airborne concentrations below the recommended occupational exposure limit. Mechanical ventilation is recommended for all indoor situations to control fugitive emissions.

Skin Protection: Avoid prolonged contact with skin. Impervious gloves (viton, nitrile) should be worn at all times when handling this material. In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn.

Eye Protection: Avoid contact with eyes. Safety glasses with splash guards or goggles are recommended.

Work/Hygienic Practices: Eye washes and safety showers in the workplace are recommended. Air dry contaminated clothing in a well-ventilated area then launder before reusing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 365°F (185°C)

Specific Gravity (H₂O=1): 0.768

Vapor Density (Air=1): Not available

Solubility in Water: Insoluble

Evaporation Rate (Butyl Acetate = 1): 0.04

Appearance and Odor: Light amber liquid, hydrocarbon and somewhat fruity odor.

Volatile Organic Compound (VOC) (as packaged minus water): 6.5 lb./gal. @ 60°F

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Excessive heat, open flames and all ignition sources.

Incompatibility (materials to avoid): Contact with strong oxidizing agents and acids.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will not occur.

Sensitive to Mechanical Impact: Yes

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological Data: Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic/Terrestrial Toxicity Environmental Fate No data is available at this time.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

SECTION 14 – TRANSPORT INFORMATION

U.S. DOT -	Shipping Description:	Consumer Commodity
	ID Number:	Not applicable
	Hazard Class:	ORM-D
	Packing Group:	Not applicable
	Label:	Not applicable
	Placards:	Not applicable
IMDG -	Shipping Description:	Non-hazardous Auto Care Product
	ID Number:	Not applicable
	Hazard Class:	Not applicable
	Packing Group:	Not applicable
	Label:	Not applicable
	Markings:	Not applicable
	Placards:	Not applicable

SECTION 15 – REGULATORY INFORMATION

TSCA Inventory: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.

SARA Extremely Hazardous Substances None

SARA Section 313 This product does not contain any toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)

CERCLA/Superfund (RQ): This product is not subject to CERC LA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

Document Date: 8/11/06

Supersedes: 12/21/01

Revisions: Corporate name and address.

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